FILE NOTATIONS			
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CORPLETION PAGE	¥.;		
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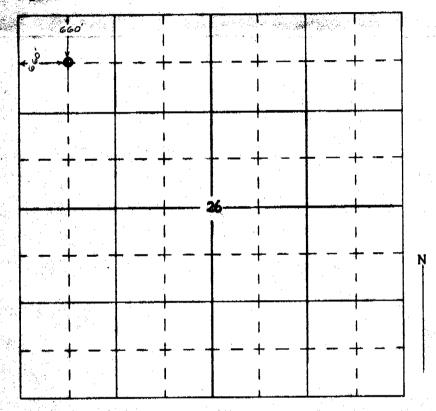
UNITED STATES DEPARTMENT OF THE INTERIOR **GEOLOGICAL SURVEY**

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Indian Agency	lavajo	Trib
Window Roc	k, Ar	Leons
Allottee		
Lease No. 14-2	20-603-	-2053

SUNDRY	NOTICES	AND REP	ORTS ON WELL	S
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OTICE OF INTENTION TO SHOOT			REPORT OF ABANDONMENT.	
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			T, NOTICE, OR OTHER DATA)	10 1
			August 8, and 660 ft. from W line	
W/4 Sec 26 (14 Sec, and Sec, No.)		25-E (Range)		
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1ldost	<u> </u>	n Juan	<u>Utah</u>	
(Field)	-	inty or Subdivision)	(State or Territ	ory)
			ngths of proposed casings; indicate moposed work) Paradox (J) Zone at	
op to bottom). We	will run and	cement 9-5/8"	t approximately 300 f OD casing at approx using as the oil stri	instelv 1200 f
i understand that this plan of w	ork must receive approve	d in writing by the Geo	ological Survey before operations ma	ry be commenced.
mpany SINCLAIR O	IL & GAS COMPA	NY		
c/o G. L. 1		*********		
dress 601 Denver				
Denver, Co.		·		
= -sav way wo			By 7 11	<u>/·</u>
	. 4			Daniel and an P
		า	Asst. Div. Supt.	- rroduction D
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COMPANY Sinclair Oil and Gas Company Well Name 6 No. Navajo Tract 157 #2	Lease No.	
Location 660 from North line and 660 from West line		
Being in MWANWE		
Sec. 26, 750 8. R25 F., Sales San Juan County, Utah	•	

Ground Elevation 5211



Scale - 4 inches equals 1 mile

		-	. 277
	7	1	OB'/
C C ETTOMETE	1	. 1	421
Surveyed August			

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

tates Oil Field Surveys nington, New Mexico

Ernest V. Echohawk Registered Land Surveyor

N. M. Reg. #1545 Practicing in Utah under laws regulating Professional Engrs. and Land Surveyors, Utah Cade 1953, Title 58-10-16

August 12, 1957

Sinclair Cil & Gas Company c/o G. L. Weger 601 Denver Club Building Denver, Colorado

Centlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Navajo Tract 157 - 2, which is to be located 660 feet from the north line and 660 feet from the west line of Section 26, Township 40 South, Range 25 East, SLEM, San Juan County, Utah.

Please be advised that insofar as this office is concerned, approval to drill said well is hereby granted.

Yours very truly.

OIL & GAS CONSERVATION COMMISSION

CLEON B. FRIGHT SECRETARY

CBF: on

ee: Phil McGreth USGS, Farmington, New Mexico

> Don Russell USGS, SLC, Vt.

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

ALLOTTER RAVA JO
TRISE RAVA JO
LEASE NO. 14-30-603-3053

LESSEE'S MONTHLY REPORT OF OPERATIONS

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ells) f	or th	e mon	th of	·	eret		, 1957	Na	rajo Tract	197
gent's	addr	ess	60	L.Dus	ver Club B	iildin	g C	ompany	Similair	911 4 Gas Company
			Dn	MYRK.	2. Colored	<u> </u>	S	igned	a.a	nemport
hone .			AM	herst	6-2461		<i>4</i>	lgent's ti	tle Div. C	bief Clerk - Prod D
SEC. AND	Twp.	RANGE	WELL No.	Вата Расписаю	Barreis of On.	GRAVITY	Cu. Fr. or G. (In thousands	GALLONS GASOLE RECOVE	NE WATER (H	(If drilling, depth; if shat down, cause date and result of test for gasoline content of gas)
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Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.



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UNITED STATES DEPARTMENT OF THE INTERIOR

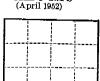
GEOLOGICAL SURVEY

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ell No	a is located	60 ft. from	Ine a	nd 660 ft.			.mi
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-19-57	Drlg ahead © 5976						
I understand	that this plan of work must recei	ve approval in wr	iting by the Ge	ological Survey be	ore operations m	sy be commenced	ı .
ompany	Simplair Oil & Co	s Compazy					
ddress	601 Denver Club B Denver, Colorado	nilding		By	J. Va	was	Ĺ
			_	Citle DAY. Ch	def Clark	- Prod D-	*
			7	Title ****	TATES		/ *

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(SUBMIT IN TRIPLICATE)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Approva	d expires	12-31-	-60.
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Allottee			
Lease No. 24	20-6 (کر د	2053

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.
	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSECUENT DEPORT OF REDRUGUES OF REDAIN
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF REDRILLING OR REPAIR SUBSEQUENT REPORT OF ABANDONMENT.
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY.
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(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

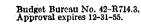
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166/4 San 36	40- 8	25-6 Salt :	iala
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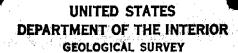
DETAILS OF WORK

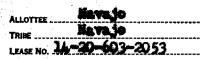
(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cement-ing points, and all other important proposed work)

Prepare to ren 50 00 casing to 6155-TD, consected with 375 seeks

I understand that this plan of work must receive approval in writing by the	e Geological Survey before operations may be commenced.
Allert also Mil a Dan Granden	
Company 6/8 is Weger Club Bullding Address Colorado	
	By A.W. Wewport
	Title







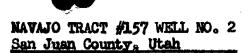
LESSEE'S MONTHLY REPORT OF OPERATIONS

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Phone _			Altho	ret 6-	3767		•	A g ent's title	My Chi	of Clark -	Prod D
SEC. AND	Twp,	RANGE	WELL No.	DAYS PRODUCED	Barrels of Oil.	GRAVITY	Cv. Fr. or G (In thousand	GALLONS OF GASOLINE RECOVERED	WATER (If	REMA (If drilling, depth; if date and result of content	shut down, cause test for gasolize
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Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

CORES AND DRILL STEM TESTS

- 9-20-57 Core #1, Basal Upper Hermosa, 5945-5995, Rec 37'; 6' shale, black, carbonaceous, calcareous, 2' limestone, dark grey, slightly argillaceous, anhydrite inclusions, 3' limestone, green grey, small vug porosity, styolitic, gooddor & stain, vertical fractures, 2' limestone, grey, dense, no show; 2' limestone, grey, trace, pp porosity, stain and odor; 8' limestone, grey, pp to good vug porosity, some permeability, good stain and odor, anhydrite inclusions; 72' limestone, grey, pp to good vug porosity, permeability, appears wet; 1' limestone, grey, argillaceous, hard and tight, fossiliferous, bottom 1' black carbonaceous shale.
- 9-21-57 DST BASAL UPPER HEREOSA, 5952-95', open 1 hour, air immediately with good blow throughout. Rec 1050' gas cut maddy selt water. FP-85-520# 60" SIP 1920#
- 9-23-57 Core #2, 6040-98; Rec 58; 5! shale, black, carbonaceous, calcareous; 5! limestone, dark grey, argillaceous, dense; 5! ahale, black, calcareous, carbonaceous, slight odor on break at 6052; 16' anhydrite, white, dense; 5! delomite, argillaceous, dark, grey, brown, anhydrite inclusions, slight odor on break; 6' limestone, dark grey, ar illaceous, dense, anhydrite inclusions fossiliferous; 6' shaley, limey, black, calcareous, anhydrite inclusions; 3' anhydrite, white, dense with shale laminations; 4' shale, black limestone with anhydrite laminations; 2' dolomite, argillaceous, dark grey, slight odor on break, 3' shale dark grey dolomite.
- 9-24-57 Core #3, 6098-6140; Rec 39; 22: limestone, dolomite, grey, brown, black shale partings, dense, good odor on break; 12: shale, black, calcareous; 6: limestone, dolomite, brown, granular, good odor, no porosity; 1: limestone, grey, argillaceous, dense; 1: limestone, dolomite, brown, dense, good odor; 6: limestone, argillaceous, grey, fossiliferous; 19: shale, black, fossiliferous, calcareous.
- 9-25-57 DST PARADOX 6094-6140; open 1 hr., air immediately, fair blow decreasing to weak at end of trst. Rec 20; mad. FP-15-25# 60* SIP-95#



CORES AND DRILL STEM TESTS

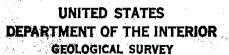
Cored Basal Upper Hermosa, 5945-5995, Rec 37°; 6° shale, black, carb. calc.; 2° limestone, dark grey, slightly argillaceous, anhydrite inclusions; 3° limestone green gray, small vug poresity, styelitic, good odor and stain, vertical fractures, 2° limesyone, grey, dense, no show, 2° limestone, grey, trace pinpoint poresity, stain and odor; 8° limestone, grey, pinpoint to good vug poresity, some permeability, good stain and odor, anhydrite inclusions; 7½° limestone, grey, pinpoint to good vug poresity, permeability, appears wet, anhydrite inclusions, fossiliferous; 5½° limestone, grey, dense, anhydrite inclusions, appears wet, 1° limestone, grey, argill—aceous, hard and tight, fossiliferous, bottom 1° black, carb, shale.

DST, Basal Upper Hermosa 5952=95, open 1 hour, air immediately with good blow throughout. Rec 1050 gas cut middy salt water. FP-85-520#, 60 SIF 1920#

Cored 6040-98, Rec 58; 5; shale, black, carb, calc; 5; limestone, dark grey, argillaceous, dense, 5; shale, black, calc, carbonaceous, slight odor on break at 6052; l6; anhydrite, white, dense; 3; dolomite, argillaceous, dark grey, brown, anhydrite inclusions, slight odor on break; 6; limestone, dark grey, argillaceous, dense, anhydrite inclusions foss; 6; shale, limey black, calc, anhydrite inclusions; 3; anhydrite, white, dense, with shale laminations; 4; shale black limestone with anhydrite laminations; 2; dolomite, argillaceous, dark grey, slight odor on break; 3; shale dark grey dolomite

Cored 6098-6140 Rec 39; 2½; limestone, dolomite, grey, brown, black shale partings, dense, good odor on break; 1½; shale, black, calc; 6; limestone, dolomite, brown, granular, good odor, no porosity; 1; limestone, grey, argillaceous, dense, 1; limestone, dolomite, brown, dense, good odor; 8; limestone, argillaceous, grey, fose-illiferous; 19; shale, black, fossiliferous, calc.

DST Paradox 6094-6140; open 1 hours, air immediately, fair blow decreasing to weak at end of test. Rec 201 mid. FP-15-25# 60" SIP 95#



Budget Bureau No. 42-R714.4.
Approval expires 12-31-60.

ALLOTTEE
TRISE

LESSEE'S MONTHLY REPORT OF OPERATIONS

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irc. and M of M	TWP.	RANGE	WELL No.	DAYS PRODUCED.	BARRELS OF OIL	GRAVITY	Co. Fr. of Gas (In thousands)	GALLONS OF GASOLINE BECOVERED	PARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if chut down, cause; date and result of test for gasoline content of gas)
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Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS 1, TEXAS

October 10, 1957

REPLY TO

706 PATTERSON BLDG.
DENVER, COLORADO

Santagen and Santagen and Santagen and Santagen

Sinclair Oil & Gas Company 601 Denver Club Building Denver, Colorado

Subject: Core Analysis
Navajo 157-2 Well
East Aneth Field
San Juan County, Utah

Gentlemen:

- ----

Diamond coring equipment and water base mud were used to core the intervals from 5945 to 5995 and from 6098 to 6140 feet in the Navajo 157-2. Representatives of Sinclair Oil & Gas Company and of Core Laboratories, Inc. selected samples of recovered formation, and these samples were analyzed in the Farmington laboratory. The analysis was made by whole-core procedures using long segments of full-diameter core, and the results are presented in this report.

Hermosa limestone from 5953.0 to 5963.3 feet has low residual oil and high total water saturations, and is of no commercial value. The porosity in this interval also is comparatively low.

From 5963.3 to 5979.0 feet, the porosity development is substantially improved, but the total water saturations are somewhat higher than are normally associated with oil productive carbonate sections. The residual oil saturations are lower than those usually associated with oil productive carbonate rocks. However, the presence of a residual oil saturation in this fairly permeable interval justifies additional testing of the interval in order to determine the type and quantity of fluid which the formation therein is capable of producing.

Paradox dolomite from 6098.0 to 6100.5 feet has a favorable residual oil saturation, but the total water saturation is significantly higher than

Sinclair Oil & Gas Company Navajo 157-2 Well

is usually found in oil productive Paradox formation. It is possible that some of the water saturation may be the result of invasion by the drilling fluid filtrate, and testing of the zone may be warranted by the presence of the favorable oil saturation.

Another zone from 6102.0 to 6104.0 feet also has a residual oil saturation, but high total water saturation is present. This zone may also be tested since the porosity development and the presence of a residual oil saturation indicate the zone may have productive possibilities.

Formation from 6104.0 to 6110.2 feet has good porosity development, together with residual oil and total water saturations favorable to oil production. The permeability in the zone is low, however, ranging from 0.1 to 0.2 millidarcy, and averaging only 0.2 millidarcy. The total observed productive capacity is only 1.0 millidarcy-feet, entirely inadequate to support satisfactory rates of fluid production unless very favorable response is obtained to treatment. The porosity in the interval ranges from 10.0 to 12.1 per cent and averages 10.8 per cent, and the empirically calculated connate water saturation is 29.8 per cent of pore space.

Estimates of recoverable oil have been calculated for the Paradox formation between 6104.0 and 6110.2 feet using the observed core analysis data from this zone in conjunction with estimated reservoir fluid characteristics considered applicable. These estimates are presented on page one of the report, and are subject to the conditions set forth in the body of and in the footnotes to the summary page.

We sincerely appreciate this opportunity to be of service to you, and trust that this report will prove useful in making a preliminary evaluation of the Hermosa and Paradox formations analyzed from this well.

Very truly yours,

Core Laboratories, Inc.

J. D. Harris,

District Manager

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering
DALLAS, TEXAS

Page 1 of 1 File RP-3-600 WC Well Navajo 157-2

CORE SUMMARY AND CALCULATED RECOVERABLE OIL

FORMATION NAME AND D	EPTH INTERVA	L: Par	adox 6104.0-6110.2	
FEET OF CORE RECOVERED FR ABOVE INTERVAL	ОМ	6.2	AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE	29.8
FEET DF CORE INCLUDED IN AVERAGES		5,2	AVERAGE CONNATE WATER SATURATION: (C)	29.8
AVERAGE PERMEABILITY: MILLIDARCYS	Max.:	0.2 0.1	DIL GRAVITY: *API (e)	40
PRODUCTIVE CAPACITY: MILLIDARCY-FEET	Max.:	1.0	GRIGINAL SOLUTION BAS-OIL RATIO: (e)	650
AVERAGE POROSITY: PER CENT	1	10.8	ORIGINAL FORMATION VOLUME FACTOR: BARRELS (e)	1.36
AVERAGE RESIDUAL DIL SATU PER CENT OF PORE SPACE	RATION:	9.8	CALCULATED ORIGINAL STOCK-TANK DIL IN PLACE: BARRELS PER ACRE-FOOT	433

Calculated maximum solution gas drive recovery is 139 barrels per acre-foot, assuming production could be continued until reservoir pressure declined to zero psig. Calculated maximum water drive recovery is 346 barrels per acre-foot, assuming full maintenance of original reservoir pressure, 100% areal and vertical coverage, and continuation of production to 100% water cut. (Please refer to footnotes for further discussion of recovery estimates.)

FORMATION NAME AND DEPTH INTERVAL:

FEET OF CORE RECOVERED FROM	AVERAGE TOTAL WATER SATURATION:
ABOVE INTERVAL	PER CENT OF PORE SPACE
FEET OF CORE	AVERAGE CONNATE WATER SATURATION:
INCLUDED IN AVERAGES	PER CENT OF PORE SPACE
AVERAGE PERMEABILITY: MILLIDARCYS	OIL GRAVITY: *API
PRODUCTIVE CAPACITY:	ORIGINAL BOLUTION GAS-OIL RATIO:
MILLIDARCY-FEET	CUBIC FEET PER BARREL
AVERAGE PORUSITY: PER CENT	ORIGINAL FORMATION VOLUME FACTOR: BARRELS SATURATED DIL PER BARREL STOCK-TANK DIL
AVERAGE RESIDUAL OIL SATURATION:	CALCULATED ORIGINAL STOCK-TANK DIL IN PLACE:
PER CENT OF PORE SPACE	BARRELS PER ACRE-FOOT

Calculated maximum solution gas drive recovery is barrels per acre-foot, assuming production could be continued until reservoir pressure declined to zero psig. Calculated maximum water drive recovery is barrels per acre-foot, assuming full maintenance of original reservoir pressure, 100% areal and vertical coverage, and continuation of production to 100% water cut. (Please refer to footnotes for further discussion of recovery estimates.)

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc., and its officers and employees assume no responsibility and make no warranty or representation as to the productivity, proper operation, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

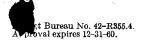
⁽c) Calculated (e) Estimated (m) Measured (*) Refer to attached letter.

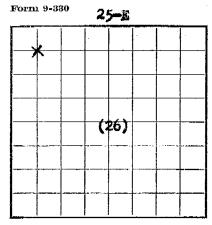
These recovery estimates represent theoretical maximum values for solution gas and water drive. They assume that production is started at original reservoir pressure; i.e., no account is taken of production to date or of prior drainage to other areas. The effects of factors tending to reduce actual ultimate recovery, such as economic limits on oil production rates, gas-oil ratios, or water-oil ratios, have not been taken into account. Neither have factors been considered which may result in actual recovery intermediate between solution gas and complete water drive recoveries, such as gas cap expansion, gravity drainage, or partial water drive. Detailed predictions of ultimate oil recovery to specific abandonment conditions may be made in an engineering study in which consideration is given to overall reservoir characteristics and economic factors.

Distribution of Final Reports

12	Copies	Sinclair Oil & Gas Company 601 Denver Club Building Denver, Colorado
1	Сору	Sunray Mid-Continent Oil Company 530 First Security Building Salt Lake City, Utah
1	Сору	Continental Oil Company Box 1121 Durango, Colorado Attention: Mr. L. W. Heiny
1	Сору	Sinclair Oil & Gas Company Box 312 Farmington, New Mexico Attention: Mr. O. J. Clark
1	Сору	Sinclair Oil & Gas Company Box 4005 Albuquerque, New Mexico

Attention: Mr. C. M. Garrett





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U. S. Land Office Navajo Tribe
SERIAL NUMBER 14-20-603-2053
LEASE OR PERMIT TO PROSPECT

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

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o. 3, f	rom		to		No. 6,	, from	to	: e= = e : : : : : : : : : : : : : : : :
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				CAS	ING RECOI	₹ D		The second section of the second section of the second second second second second second second second second
Size	Weight per foot	Threads per inch	Make	Amount		Cut and pulled from	Perforated From— To—	Parpose
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				1			مناه فراه المساورة ال	
			MUDE	ING AN	D CEMENTI	NG RECORD		
Size	Where set	Numb	er sacks of ce	ment	Method used	Mud gravity	Amount of	mud used
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3/8" /2"	6163		250		HOWCO			
	— 121 — 421		·-•					
				PLUCS	AND ADAP	! TERS	-	
eaving	plug—M	Iaterial			1		Depth set	
					Ÿ		-	

Size	Shell used	Explos	ive used	Quantity	Date	Depth shot	Depth cl	eaned out
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		************	-		<u> </u>	ļ <u> </u>		A Samurate As the control of the control of
				rools us		1.0		
otary tool	s were used fro	om <u>Sur</u> i	ace feet	to 6167-	TD- ^{feet,}	, and from	feet t	o fee
able tools	were used from	ı	feet	to	feet,	, and from	feet t	o fee
				DATES				
		, 19		Put	t to prod	lucing		, 19
The pr	oduction for t	he first 24	hours was	b	arrels of	f fluid of whic	h% wa	s oil;?
mulsion:	% water; a	ind	sediment.			Gravity, °Bé.		
						oline per 1,000		
_	· -				ons gase	nnie per 1,000	cu. 1t. of gas	
Rock p	ressure, lbs. p	er sq. in.						
	ck		l'Inillan	EMPLOYE				T\:31.
·			, 1)rmer		Au	ite Higgins		
A. T. TO	CK							
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v. L. 16 Г. н. Do	clay		, Driller	MATION R	Ny	e & Snell D		pany-, Drille
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COMPLETION RECORD: Having drilled to \$167-TD and having found no oil or gas in commercial quantities, we have plugged and abandoned this well as follows: Spot 35 sx cmt 350-250. Regulation An pipe marker contd in place, all intervening spaces filled with heavy mud. Offication cleaned. October 19, 1957.

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